

[illegible]

**G. 2**

This schematic diagram illustrates a diesel engine system. The main components include an ENGINE (1), a DOC (Diesel Oxidation Catalyst) (4), and a DPF (Diesel Particulate Filter) (3). The engine (1) is connected to the DOC (4) via a passage (2a), and the DOC (4) is connected to the DPF (3) via a passage (2b). The DPF (3) is connected to the exhaust system via a passage (2c). The system also includes a bypass passage (7) with a valve (71) that can divert exhaust from the engine (1) around the DOC (4) and DPF (3). The ECU (Engine Control Unit) (6) is connected to the engine (1) and the DPF (3) via dashed lines, indicating control signals. The ECU (6) is also connected to a sensor (8) located between the DOC (4) and the DPF (3) via dashed lines. The sensor (8) is connected to the DPF (3) via a passage (81) and to the ECU (6) via a passage (82). The system also includes a sensor (12) at the engine inlet, a sensor (11) at the engine outlet, and a sensor (53) at the exhaust outlet. The ECU (6) is also connected to a sensor (51) located between the DOC (4) and the DPF (3) via dashed lines. The ECU (6) is also connected to a sensor (52) located at the exhaust outlet via dashed lines.

FIG. 3

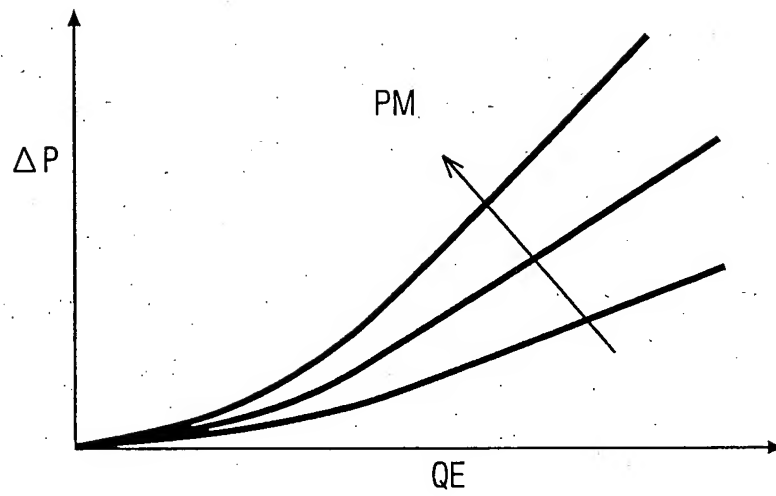
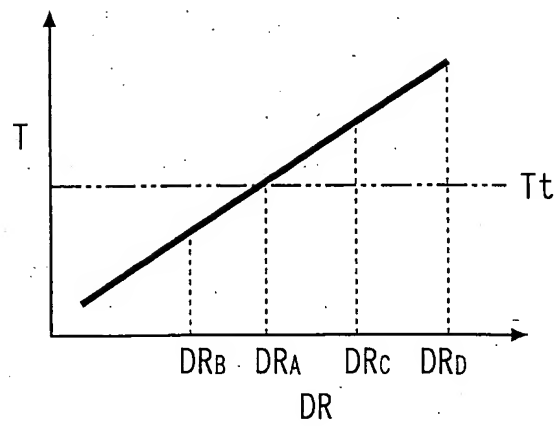


FIG. 4



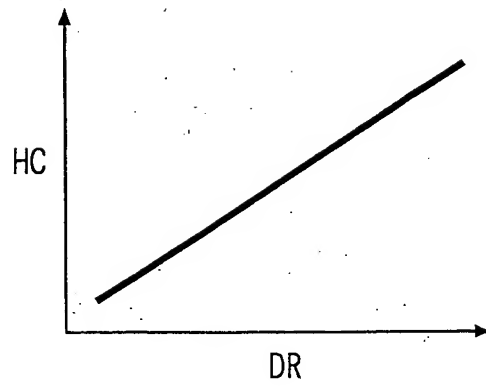
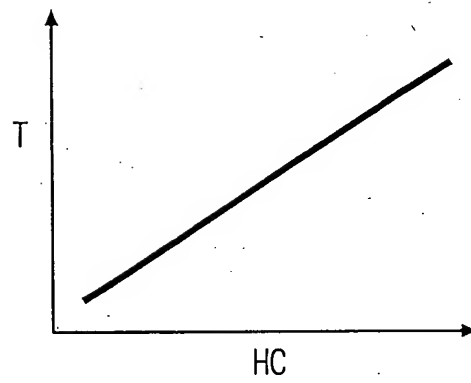
**FIG. 5****FIG. 6**

FIG. 7

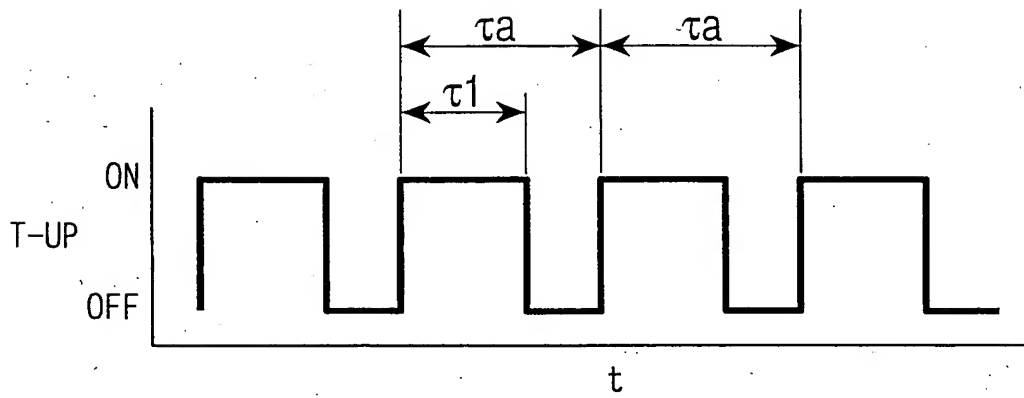
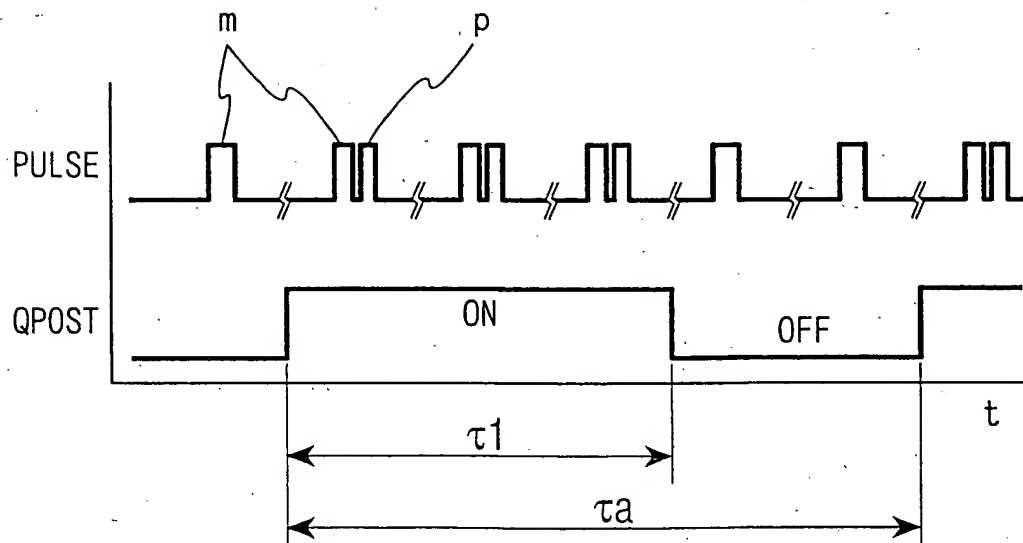


FIG. 8



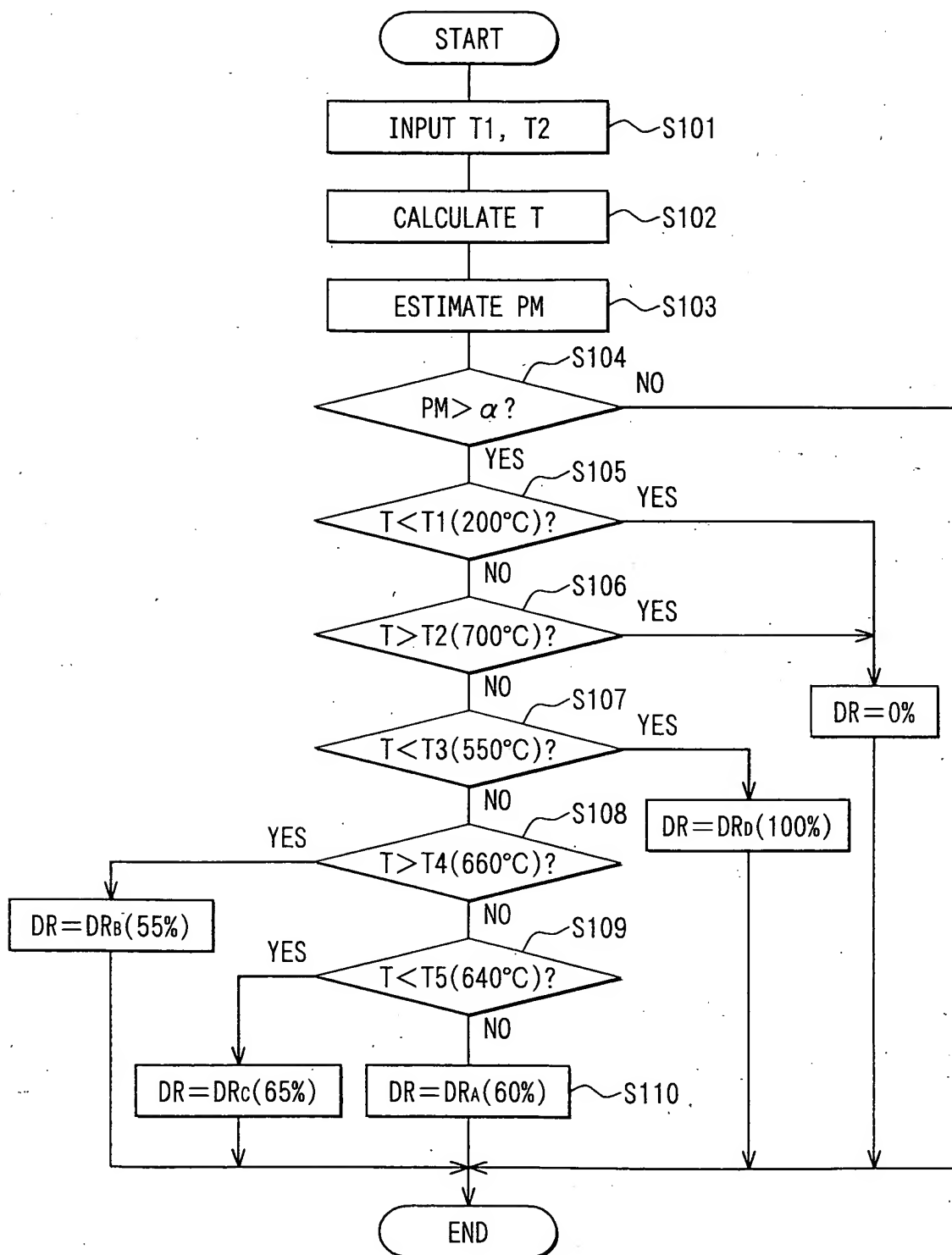


FIG. 10

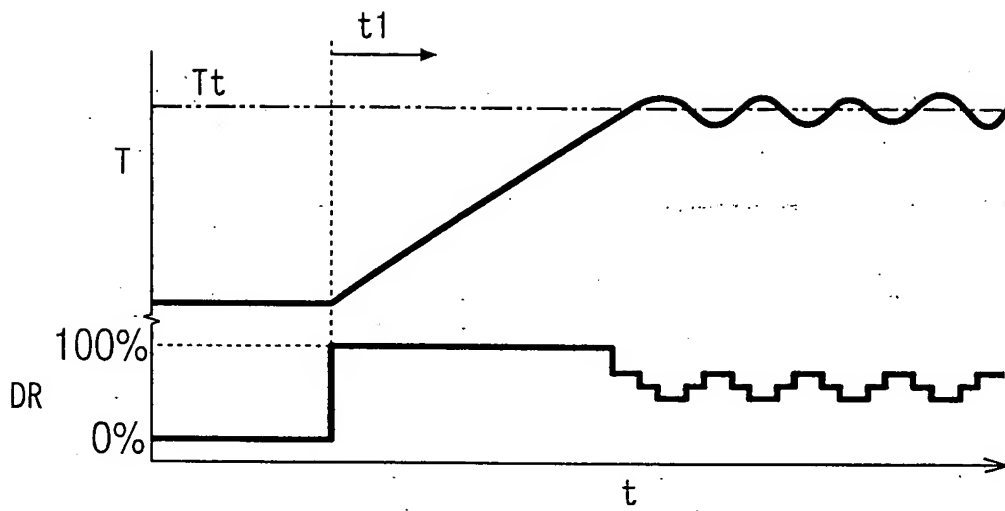


FIG. 11

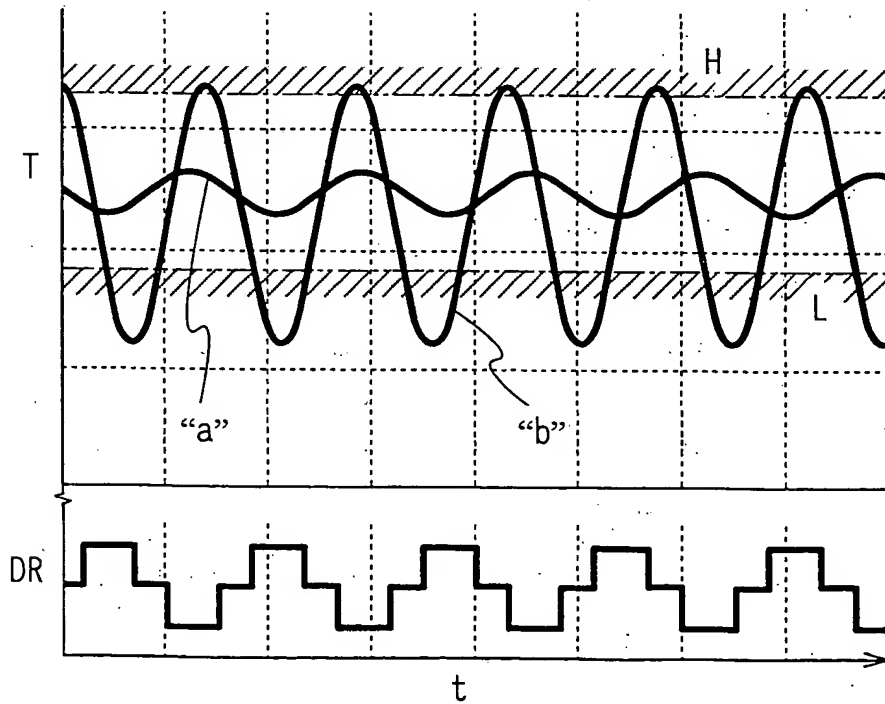
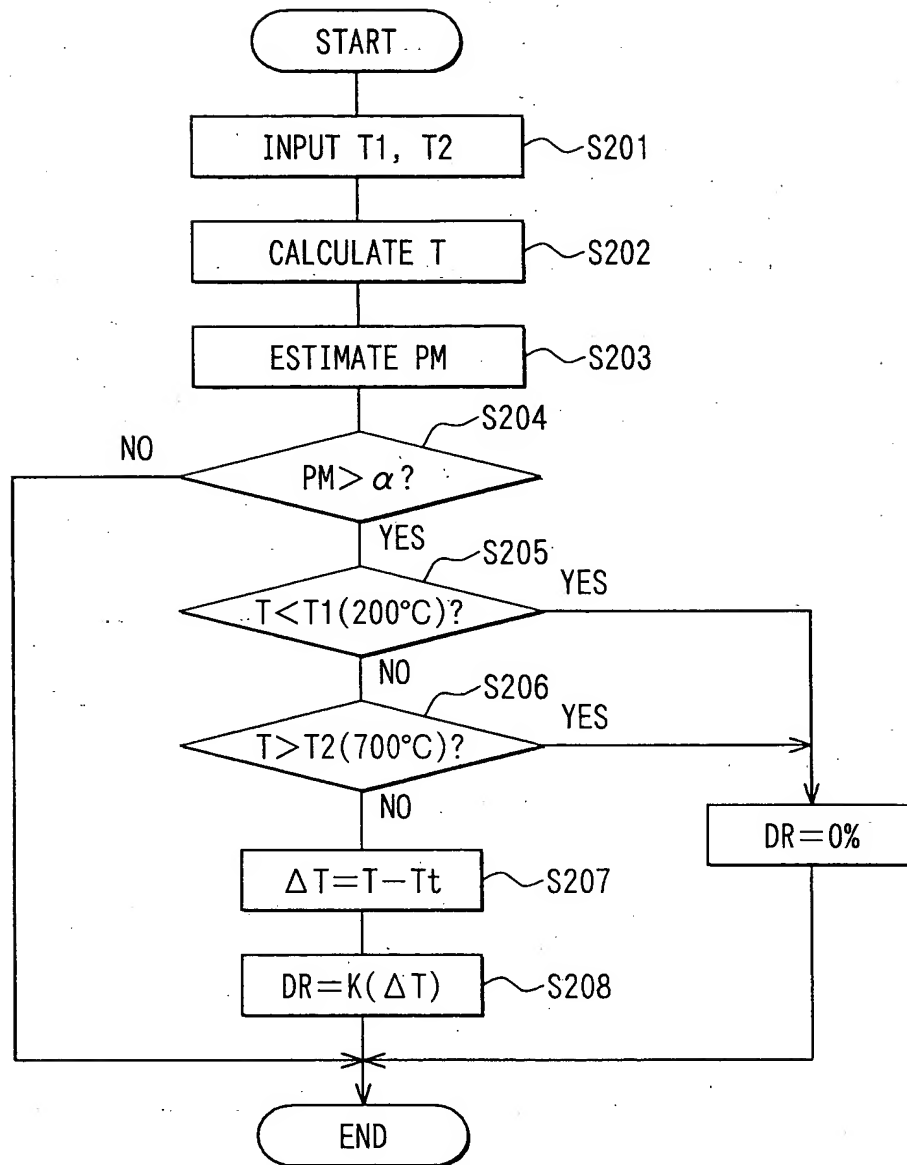
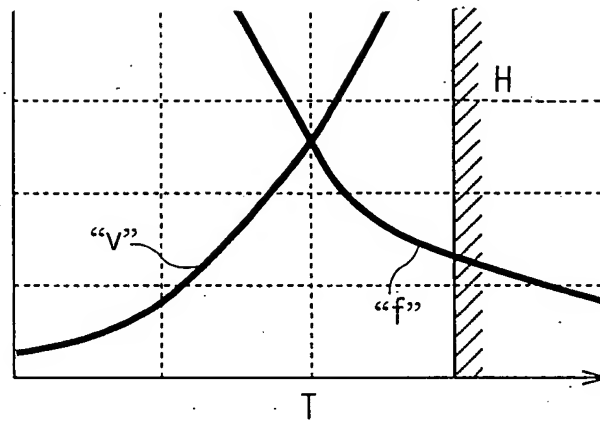


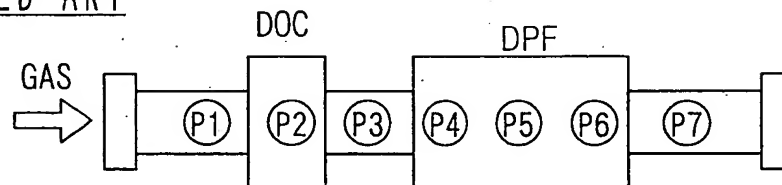
FIG. 12



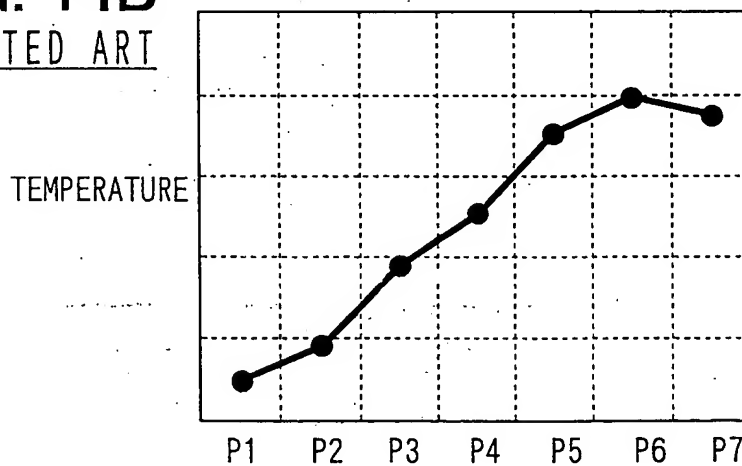
**FIG. 13**  
RELATED ART



**FIG. 14A**  
RELATED ART

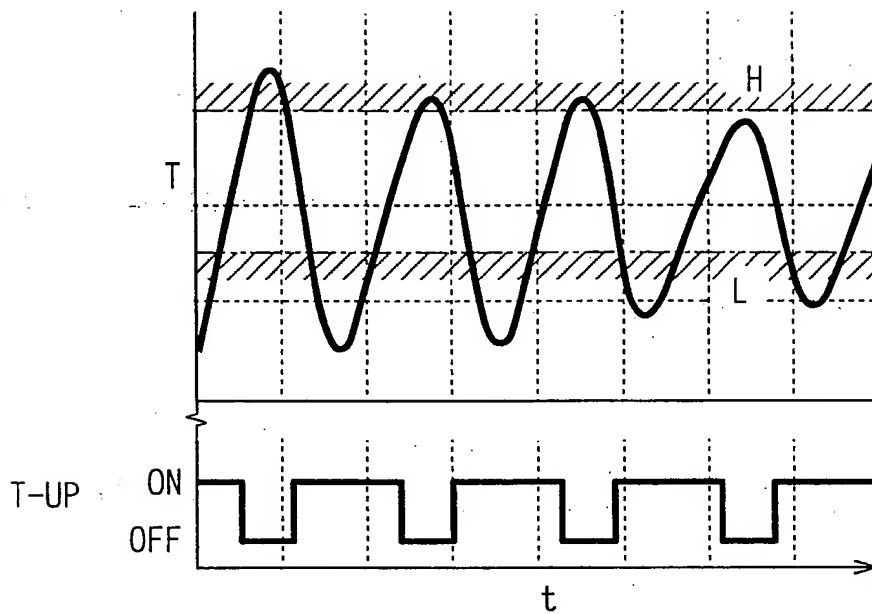


**FIG. 14B**  
RELATED ART





**FIG. 15**  
RELATED ART



**FIG. 16**  
RELATED ART

